

What is claimed is:

38. A brake system comprising:

a brake disk stack;

5 a reciprocating ram;

a motive device operatively connected to the reciprocating ram for selectively moving the reciprocating ram into and out of forceful engagement with the brake disk stack for applying and releasing braking force on a rotatable wheel;

10 a controller for controlling the motive device for selective control of the reciprocating ram and regulation of the force applied by the reciprocating ram against the brake disk stack, and

a position sensor which supplies a position signal representative of the position of the reciprocating ram; and

15 wherein the controller includes means for effecting displacement of the reciprocating ram to load the brake disk stack by a predetermined amount based on a present displacement value of the position signal obtained from the position sensor.

20 39. A brake system as set forth in claim 38, wherein the position sensor includes a LVDT transducer.

40. A brake system as set forth in claim 39, comprising a brake housing to which said motive device is mounted, and said LVDT transducer is
25 connected between said reciprocating ram and brake housing.

41. A brake system as set forth in claim 38, wherein the motive device is a servo motor.

30 42. A brake system as set forth in claim 38, in combination with an aircraft wheel assembly.

43. A method for controlling operation of a brake system, the brake system including a motive device operatively connected to a reciprocating ram for selectively moving the reciprocating ram into and out of forceful engagement with the brake disk stack for applying and releasing braking force on a rotatable member, and a controller for controlling the motive device for selective control of the reciprocating ram and regulation of the force applied by the reciprocating ram against the brake disk stack, said method comprising the steps of:

- 5 using a position sensor to supply a position signal representative of the position of the reciprocating ram;
- 10 effecting displacement of the reciprocating ram to load the brake disk stack by a predetermined amount based on a present displacement value of the position signal obtained from the position sensor.

44. A method as set forth in claim 43, wherein the step of using a
15 position sensor includes using a LVDT transducer.

45. A method as set forth in claim 43, wherein a torque motor is used as the motive device for selectively moving the reciprocating ram into and out of forceful engagement with the brake disk stack.